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#7

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/821,839

DATE: 02/13/2002
TIME: 12:50:34

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Output Set: N:\CRF3\02132002\I821839.raw

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3 <110> APPLICANT: Ma, Hong
 5 <120> TITLE OF INVENTION: Plant Gene Required for Male Meiosis
 7 <130> FILE REFERENCE: Psu-0020
 9 <140> CURRENT APPLICATION NUMBER: 09/821,839
 10 <141> CURRENT FILING DATE: 2001-03-29
 12 <150> PRIOR APPLICATION NUMBER: 60/193,523
 13 <151> PRIOR FILING DATE: 2000-03-31
 15 <160> NUMBER OF SEQ ID NOS: 7
 17 <170> SOFTWARE: PatentIn version 3.1
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 2144
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Arabidopsis thaliana
 24 <400> SEQUENCE: 1

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29	ttcaaaagcgc	aaggctgagc	cgacgcgtt	cggcggaaag	aagctccgt	cgacgcgtt	180
31	acgcccggaaag	agagcacaga	tctctccgt	tcttgtaaa	tcacctctct	ggagcaaaca	240
33	aatcggagtc	tctgtgtctt	ctgtcgattc	ctgctccgt	ttgcttagctg	atgacaacgt	300
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39	aaggatttacg	aggctttact	ctaaagctaca	caaggagaag	gagggagatg	agatcgaagt	480
41	aagcgaatcgt	tcttgggttg	attcgaattc	ttgtgtctgg	ttaaggatgt	tgaatgtgaa	540
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87	aaccaggaca	cagtataactc	cgataccaa	acacaggtt	tcattactat	ttacaaaaac	1920										
89	aaacacaagg	taagtaataa	gaactctct	acagatttat	atacttaatc	gagctggact	1980										
91	taatttagctc	ttagtatacc	aattttagt	gccaccattt	gtgtcgctca	tacacattta	2040										
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117	Ile	Gly	Val	Ser	Ala	Ala	Ser	Val	Asp	Ser	Cys	Ser	Asp	Leu	Leu	Ala	
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121	Asp	Asp	Asn	Val	Ser	Cys	Gly	Ser	Ser	Arg	Val	Glu	Lys	Ser	Ser	Asn	
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125	Pro	Lys	Lys	Thr	Leu	Ile	Glu	Glu	Val	Glu	Val	Ser	Lys	Pro	Gly	Tyr	
126							85			90				95			
129	Asn	Val	Lys	Glu	Thr	Ile	Gly	Asp	Ser	Lys	Phe	Arg	Arg	Ile	Thr	Arg	
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137	Ser	Glu	Ser	Ser	Cys	Val	Asp	Ser	Asn	Ser	Gly	Ala	Gly	Leu	Arg	Arg	
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141	Leu	Asn	Val	Lys	Gly	Asn	Lys	Ile	Asn	Asp	Asn	Asp	Glu	Ile	Ser	Phe	
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145	Ser	Arg	Ser	Asp	Val	Thr	Phe	Ala	Gly	His	Val	Ser	Asn	Ser	Arg	Ser	
146							165			170				175			
149	Leu	Asn	Phe	Glu	Ser	Glu	Asn	Lys	Glu	Ser	Asp	Val	Val	Ser	Val	Ile	
150							180			185				190			
153	Ser	Gly	Val	Glu	Tyr	Cys	Ser	Lys	Phe	Gly	Ser	Val	Thr	Gly	Gly	Ala	
154							195			200				205			
157	Asp	Asn	Glu	Glu	Ile	Glu	Ile	Ser	Lys	Pro	Ser	Ser	Phe	Val	Glu	Ala	
158							210			215				220			
161	Asp	Ser	Ser	Leu	Gly	Ser	Ala	Lys	Glu	Leu	Lys	Pro	Glu	Leu	Glu	Ile	
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165	Val	Gly	Cys	Val	Ser	Asp	Leu	Ala	Cys	Ser	Glu	Lys	Phe	Ser	Glu	Glu	
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186	325	330	335
189	Ile His Ser Glu Leu Leu Arg Phe Asp Asp Glu Glu Val Glu Ser		
190	340	345	350
193	Tyr Leu Arg Leu Arg Glu Arg Glu Arg Ser His Ala Tyr Met Arg Asp		
194	355	360	365
197	Cys Ala Lys Ala Tyr Cys Ser Arg Met Asp Asn Thr Gly Leu Ile Pro		
198	370	375	380
201	Arg Leu Arg Ser Ile Met Val Gln Trp Ile Val Lys Gln Cys Ser Asp		
202	385	390	395
205	Met Gly Leu Gln Gln Glu Thr Leu Phe Leu Gly Val Gly Leu Leu Asp		
206	405	410	415
209	Arg Phe Leu Ser Lys Gly Ser Phe Lys Ser Glu Arg Thr Leu Ile Leu		
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217	Pro Tyr Asn Ser Ile Arg Lys Arg Asn Phe Thr Ile Gln Asn Leu Arg		
218	450	455	460
221	Tyr Ser Arg His Glu Val Val Ala Met Glu Trp Leu Val Gln Glu Val		
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225	Leu Asn Phe Lys Cys Phe Thr Pro Thr Ile Phe Asn Phe Leu Trp Phe		
226	485	490	495
229	Tyr Leu Lys Ala Ala Arg Ala Asn Pro Glu Val Glu Arg Lys Ala Lys		
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233	Ser Leu Ala Val Thr Ser Leu Ser Asp Gln Thr Gln Leu Cys Phe Trp		
234	515	520	525
237	Pro Ser Thr Val Ala Ala Leu Val Val Leu Ala Cys Ile Glu His		
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241	Asn Lys Ile Ser Ala Tyr Gln Arg Val Ile Lys Val His Val Arg Thr		
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263	tagatatgtt tctatacatgt tgtgtatata tacacacata cttgttagagc atgtgagaca	180
265	gtgaaatcta ctatgttta acatggatgt gaagaaagat gagaacagta tcttagaaaa	240
267	catgaaacaa gagattaatc atagtctaaa agaagaagca caagaagaag aagagattct	300
269	aaagaagaga atctcaagcc accctttgtt tggcttctt cttcactcac atctcaattt	360
271	tttaaaggtt cccctttaa tgctccctc tctcttttt ttatcaaagt gatgtatgag	420
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275 ttgactcacc ggagatcatg aacacggctg atgatcttgc cctatccaaa ctctcttcc 540
 277 accctgactc ttccctccgaa gctacctt cagaacctga tcaattcatg gttcttttt 600
 279 tttttctcc ctgccaaaac atatttacac aacaaaaaac aactttcac gttcttttat 660
 281 ttttcctt gcaaattaat ttgactttca agtattctaa gtttattttg ccaagaaaaaa 720
 283 aacagtagca cttatacttg taaattgatt cacataatag gaagcgtatt gctcgactct 780
 285 acgggagctc aaggaagcaa tggagaagcc tcttaccgaa acgcacatcggtt ttgtggatgc 840
 287 ggtgtacact cagctaaacg acatcggtt gtcaccc cctaaaaaaa ggttaacatg 900
 289 aacaactgtt cggtgtact atgtcaatgc attttgc当地 attactactc agtctactca 960
 291 cgatttattt tactgc当地 acgtaacgc当地 tttgtatgat cgtttattgg taaccgttaat 1020
 293 ttatggcatg ccctccgtt当地 ttttattt当地 agaaaaataa aactaattt当地 attgttaata 1080
 295 ttgcattgtat catttagtca cactctt当地 aaaacaacag taaaattt当地 atataaaaac 1140
 297 aacactagct tccatgatta tttt当地 ccattt当地 ttgc当地 catc ttgtaatgg 1200
 299 taacgcattt当地 cctt当地 ttgttaacgg ttgtt当地 cataaattt当地 1260
 301 tacacaaaaga taaaaagtga ctaagcttaa aatatcctt当地 aaaaaggctt tgggtcatta 1320
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 307 cattggcccg AAAACGGGGC aagttt当地 ttgtt当地 catc ttgtaatgg 1500
 309 caaacatcag aaaattt当地 ttgtt当地 acattaatta acaggattt当地 gttt当地 aagataagat 1560
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 321 gatTTTGTG cctgattccg ttgtt当地 ctgtattt当地 tatat当地 tgattt当地 1920
 323 ataactgtt当地 tttaaaaag aagataattt tgataaaagg gtgattacga actttccaa 1980
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 335 gccc当地 aaatcaactaa aataaggatca ccaatggaaa aagaaacaaa aaaaccaggta 2340
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 345 ttatgtt当地 tttagtt当地 tccacgtt当地 ttgtat当地 aaaaatgtt当地 agactgtatg 2640
 347 taaaaggca tactagagaa attaattt当地 aaacatcaat cagtt当地 aattt当地 2700
 349 accgcatgtt当地 tttagt当地 aatctgt当地 tttactgatc gagatgc当地 aattt当地 2760
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380	cataaattca aacgcaaacg ctgatctcta cattagccaa acaagaatag cgtccaaatt	420
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462	ttgtggtaaa acctctctga ctatataattt tcatgttccaa agacacattt tccacacaga	2880
464	aagataacata tgactatcat ttatacatgt cagttctac taaaagctg ctgcgacccaa	2940
466	tccagaagtt gaaaggaaaag ccaaattctt ggctgttacc tcactatccg accaaactca	3000

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